

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 122 AND KERNAN DRIVE IN BALTIMORE COUNTY. MD 122 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE.

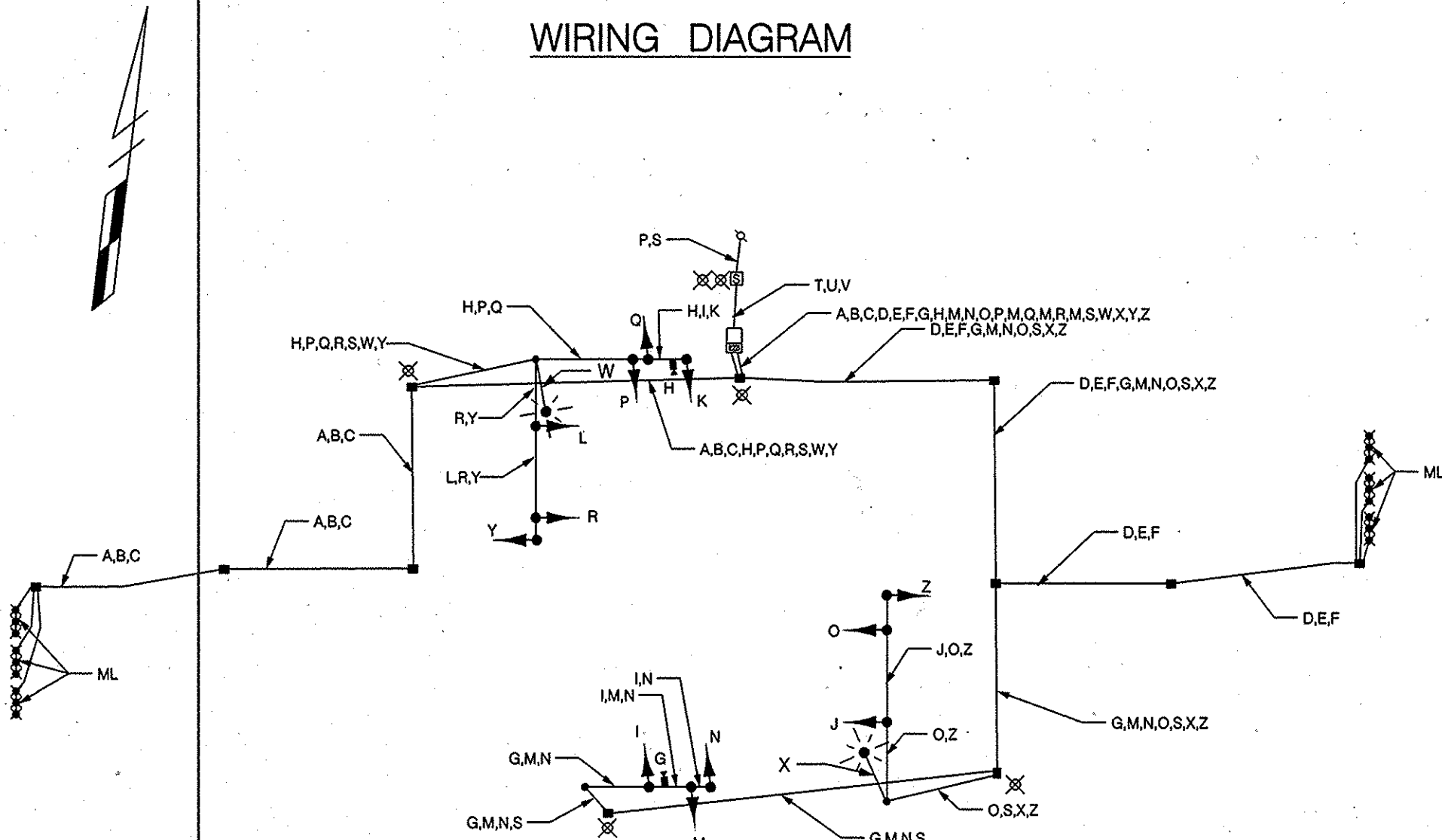
CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH SYSTEM PACKAGE AND TWO (2), FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER AND VIDEO DETECTION INTERFACE EQUIPMENT HOUSED IN A NEMA "6" BASE MOUNTED CABINET.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE MSHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR MUST PROVIDE MR. SNYDER WITH THE NEAREST ADDRESS, ZIP CODE, AND PHONE NUMBER.

WIRING DIAGRAM



WIRING KEY

- A-F MICRO-LOOP PROBE LEAD-IN
- G-H VIDEO DETECTION CABLE
- I-L 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- M-R 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- S STRANDED BARE COPPER GROUND
- T-V 1-CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
- W-X 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.) TRAY CABLE
- Y-Z 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
- ML MICRO-LOOP PROBE
- PS PROPOSED ELECTRIC SERVICE
- X GROUND ROD

PHASING CHART

	1	2	3	4	5	6	7	8	9	10	11	12
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	G	G
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLR

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
9016	2 EA	FOUR CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER
9042	1 EA	CONTROLLER ASC II WITH TELEMETRY
9044	1 EA	BASE MOUNTED CABINET NEMA SIZE 6 WITH SYSTEM PACKAGE
9086	1 EA	VIDEO DETECTION INTERFACE EQUIPMENT 1-4 CAMERAS
9571	114 SF	ALUMINUM SHEET
		2 EACH - D3-2 DUAL FACE SIGN (VAR. X 16") - MAST ARM MOUNT
		2 EACH - D3-2 /MS-1 SINGLE FACE SIGN (78" X 40") - MAST ARM MOUNT
		2 EACH - D3-3 (3) SIGN (VAR. X 36") - GROUND MOUNT

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

ITEM NO.	QUANTITY	DESCRIPTION
1001	3 EA	MAINTENANCE OF TRAFFIC
2002	4 CY	TEST PIT EXCAVATION
5001	60 LF	FURNISH AND INSTALL 5 IN. HEAT APPLIED YELLOW PERMANENT PREFORMED PAVEMENT MARKING
5002	15 LF	REMOVE EXISTING PERMANENT PAVEMENT MARKING LINE
5005	15 LF	FURNISH AND INSTALL 24 IN. HEAT APPLIED WHITE PERMANENT PAVEMENT MARKING LINE
8001	36 EA	FURNISH AND INSTALL 12 IN. L.E.D. SIGNAL HEAD SECTION
8007	2 EA	FURNISH AND INSTALL 15 FT. LIGHTING ARM WITH 250 WATT HPSV LAMP AND LUMINAIRE
8019	2 EA	FURNISH AND INSTALL 50 FT. MAST ARM AND POLE
8021	6 EA	FURNISH AND INSTALL NON-INVASIVE MICRO-LOOP PROBE SET
8022	LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
8023	1 EA	FURNISH AND INSTALL 50 FT. 60 FT. TWIN MAST ARMS AND POLE
8026	2 EA	FURNISH AND INSTALL VIDEO DETECTION CAMERA AND CABLE
8034	700 LF	FURNISH AND INSTALL SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
8035	450 LF	FURNISH AND INSTALL SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
8036	60 LF	FURNISH AND INSTALL WOOD SIGN SUPPORTS
8038	114 EA	INSTALL OVERHEAD OR GROUND MOUNTED SIGN
8040	500 LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER WIRE
8042	1 EA	FURNISH AND INSTALL METERED SERVICE PEDESTAL
8044	50 LF	FURNISH AND INSTALL ELECTRICAL CABLE 1-CONDUCTOR (NO. 4 A.W.G.)
8046	12 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8055	100 LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 A.W.G.)
8056	2250 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 A.W.G.)
8057	450 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR (NO. 12 A.W.G.)-TRAY CABLE
8064	1 EA	INSTALL BASE MOUNTED CABINET AND CONTROLLER

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO.	QUANTITY	DESCRIPTION
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NONE

ALL SIGNAL EQUIPMENT TO BE REMOVED AND NOT RETURNED TO THE SHA SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS:

MR. RANDALL SCOTT  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
(410) 321-2781

MR. STEVE MARCISZEWSKI  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
(410) 321-2761

MR. MIKE PASQUARIELLO  
ASSISTANT DISTRICT ENGINEER - UTILITIES  
(410) 321-2841

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR.  
CHIEF, TRAFFIC OPERATIONS  
(410) 787-7630

MR. EUGENE BAILEY  
TEAM LEADER SIGN OPERATIONS  
(410) 787-7676

MR. ROBERT SNYDER  
ASSISTANT DIVISION CHIEF,  
TRAFFIC OPERATIONS  
(410) 787-7631

MS. DARLENE EIDE  
SUPPLY OFFICE  
SIGNAL SHOP WAREHOUSE  
(410) 787-7668

MR. ED RODENHIZER  
TEAM LEADER SIGNAL OPERATIONS  
(410) 787-7652

TOD NO: AT912-05  
SHA No.: BA633A52/C52  
MD 122 @ Kernan Dr./Colonial Rd

**TRAFFIC CONCEPTS, INC.**  
325 Gambrills Road  
Suite E  
Gambrills, MD 21054  
(410) 923-7101  
FAX (410) 923-6473  
EMAIL TRAFFIC.CONCEPTS@COMCAST.NET



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION PLAN  
MD 122 AND (SECURITY BLVD.) AND  
KERNAN DRIVE /COLONIAL ROAD

SCALE NONE DATE 12-04-06 CONTRACT NO. AT 9125185

DESIGNED BY T. ZAYDEL COUNTY BALTIMORE  
DRAWN BY T. ZAYDEL LOGMILE 0.3012302.07  
CHECKED BY K. SCHMID T.I.M.S. NO. H 349  
F.A.P. NO. NA TOD NO.

DRAWING NO. TS- 4541 B SHEET NO. 2 OF 2